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(54) **Method and unit for controlling the supercharge pressure of a turbodiesel engine with a variable-geometry turbine**

(57) The method of controlling supercharge pressure following rapid acceleration includes the steps of generating a pressure signal (PSmis) related to the value of the supercharge pressure of an engine; generating a reference signal (PSrif) related to a desired supercharge pressure value; generating a correction signal (DPS) related to a time derivative of the pressure

signal (PSmis); generating an acceleration output signal (DutyV1) as a function of a linear combination of the pressure signal (PSmis), the reference signal (PSrif) and the correction signal (DPS); and supplying the acceleration output signal (DutyV1) as a control signal (DutyV).

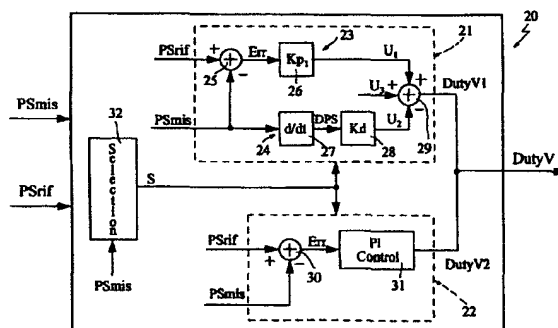


Fig. 3